

ABSTRACT OF THE DISCLOSURE

A data transmission system is provided to transmit data streams recorded on recording media to the external system or device. Herein, an original data stream read from a recording medium is subjected to

5 calculation using a variable selected from a variable set which consists of a number of variables and which is created by each cycle. A variable change code is provided to represent the variable selected from the variable set. Then, a calculated data stream is temporarily stored on a stream buffer together with the variable change code. The calculated data stream is

10 output from the stream buffer and is subjected to inverse calculation using the same variable designated by the variable change code. Using the inverse calculation, it is possible to reproduce the data stream, which is then processed. Thereafter, the data transmission system outputs the processed data stream. Because the calculated data stream is stored on

15 the stream buffer, it is difficult for the third party to easily capture the original data stream from the stream buffer. In addition, the variable used for the calculation and inverse calculation is changed in each cycle, so that it is difficult for the third party to decode the calculated data stream to the original data stream. Therefore, it is possible to prevent the third party to

20 easily produce an unauthorized copy of the data streams recorded on the recording medium from the stored content of the stream buffer.